TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION Effective August 1, 2013
EC-67

*The following product has been evaluated for compliance with the wind loads specified in **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **August 2017**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

Dura-Max™ XL Integrated Thin Clay Brick Panels and **Dura-Max™ Integrated Thin Concrete Brick Panels** manufactured by

Genesis Building Products, LLC
18927 Aldine Westfield Road
Houston, Texas 77073
Telephone: (281) 821-0191

will be accepted in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

Dura-Max™ XL Integrated Thin Clay Brick Panels are nominal 3/4" thick composition of 3/8" thick clay brick slices bonded to a 1/4" thick cement fiberboard with rigid "closed cell" polyurethane foam. The bricks are integrated within a 1/8"-3/16" thick layer of the polyurethane during the molding process. The finished panels are 24" high and are available in lengths of 48" and 96". The brick panels, when attached as siding to a structure, have the appearance of full brick masonry. The clay brick is available in various dimensions and colors.

Dura-Max™ Integrated Thin Concrete Brick Panels are nominal 3/4" thick composition of 3/8" thick concrete brick bonded to a 1/4" thick cement fiberboard with rigid "closed cell" polyurethane foam. The bricks are integrated within a 1/8"-3/16" thick layer of the polyurethane during the molding process. The finished panels are 24" high and are available in lengths of 48" and 96". The brick panels, when attached as siding to a structure, have the appearance of full brick masonry. The concrete brick is of a consistent modular size and is available in various colors.

LIMITATIONS

Wall Bracing: The Dura-Max™ XL Thin Clay Brick Panels and the Dura-Max™ Thin Concrete Brick Panels shall not be used as wall bracing.

Design Wind Pressure: -65.0 psf

INSTALLATION REQUIREMENTS

General Installation Requirements:
All fasteners shall be corrosion resistant. The manufacturer's recommended installation instructions and this evaluation report shall be followed for proper product installation.

Installation: Wall studs shall be minimum 2x4 Stud or No. 3 grade Southern Yellow Pine dimension lumber. The wall studs shall be spaced a maximum of 16 inches on center. Wall bracing shall be installed as required. The thin brick panels may be installed either directly to the wood wall studs or over structural or non-structural sheathing and secured to the wood wall studs.

A vapor barrier shall be applied over the wood wall studs or over the wall sheathing.

The first thin brick panel course is installed on the lowest level such that the panel is fully supported and level on the wall studs. Adjacent panels are positioned / cut to fit on each side and above this starter panel as required. The panels are cut with a diamond masonry blade.

Fasteners to secure the thin brick panels to the wood wall studs shall be minimum No. 8 x 2-1/4" screws. Fasteners installed at the vertical panel edges shall be installed with minimum 3/4" outside diameter washers in the area of the brick "leave-out".

Fasteners are applied to the edge of the panel in the brick "leave-out" to the wood wall stud. These fasteners will be covered by the brick used to fill the "leave-out". Fasteners in the field of each panel are to be installed at approximate 9 inch vertical intervals to the wood wall studs through the grout line across the entire panel. Fasteners shall be located between 3/8" to 1/2" from the vertical panel edge and between 3/4" to 1" from the edge of the panel on the horizontal edges. Recess the fastener into the grout and cover the fastener head and washer with manufacturer recommended sealant and loose grout per the manufacturer's recommended procedure.

Adjacent thin brick panels are aligned, leveled, and installed in a similar manner. All vertical thin brick panel edges shall be supported by wood wall studs.

Offset the next course of panels such that the vertical panel joints are NOT directly above or below each other and the vertical grout lines maintain the pattern established within the field of the brick panel.

Install the field-applied bricks in all "leave-out" areas between panels using the manufacturer's supplied thin bricks and recommended adhesive following the manufacturer's recommended procedure. Fill the exposed fastener heads and gaps between the panels with manufacturer recommended sealant, using a fine line applicator. "Point up" the screw heads or gaps by applying loose grout to the sealant before it skins over.

Note: The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.